

## Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

### Listing of Claims:

1. (currently amended) A method of a service provider for authenticating an electronic device, the electronic device having device specific identifying data stored therein, the method comprising:
  - issuing, by an authenticating agent, a plurality of random challenges to the electronic device and receiving, by the authenticating agent, a plurality of responses from the electronic device, wherein each random challenge and corresponding response represents a challenge response pair which is unique and based upon specific identifying data of the electronic device;
  - obtaining from the authenticating agent, by the service provider, one of the challenge response pairs associated with the electronic device ~~subsequent to issuing the plurality of random challenges to the electronic device and receiving the plurality of responses from the electronic device~~;
  - communicating, by the service provider, a challenge portion of the challenge response pair to the electronic device;
  - receiving, by the service provider, from the electronic device a response to the challenge portion, wherein the response being based upon the device specific identifying information;
  - comparing, by the service provider, the response to a response portion of the challenge response pair; and
  - authenticating, by the service provider, the user if the response matches.
2. (Previously presented) The method of claim 1, wherein the step of obtaining one of the challenge response pairs comprises obtaining from a database store of challenge response pairs the challenge response pair.
3. (Cancelled).

4. (Original) The method of claim 1, wherein the step of obtaining a challenge response pair comprises obtaining a challenge response pair from a challenge response pair broker.
5. (Original) The method of claim 1, wherein the device specific identifying data comprises data stored on a subscriber identity module (SIM) card associated with the electronic device, or computed by the SIM card upon demand.
6. (Original) The method of claim 1, comprising the step of discarding the challenge response pair after use.
7. (Original) The method of claim 1, wherein the step of obtaining a challenge response pair comprises obtaining via a secure communication interface the challenge response pair.
- 8-17 (Cancelled).